



Wireless LANs

By Jim Geier

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Wireless LANs are those Local Area Networks that use high frequency radio waves instead of cables for connecting the devices in LAN. Users connected by WLANs can move around within the area of network coverage. Most WLANs are based upon the standard IEEE 802.11 or WiFi. IEEE 802.11 Architecture. Wireless LANs (WLANs) are wireless computer networks that use high-frequency radio waves instead of cables for connecting the devices within a limited area forming LAN (Local Area Network). Users connected by wireless LANs can move around within this limited area such as home, school, campus, office building, railway platform, etc. A wireless LAN (or WLAN, for wireless local area network, sometimes referred to as LWN, for local area wireless network) is one in which a mobile user can connect to a local area network (LAN) through a wireless (radio) connection. The IEEE 802.11 group of standards specify the technologies for wireless LANs. 802.11 standards use the Ethernet protocol and CSMA/CA (carrier sense multiple access with collision avoidance) for path sharing and include an encryption method, the Wired Equivalent Privacy algorithm.

Wireless LAN is made by connecting different devices through wireless communication to make a local area network. WLAN follows a standard named IEEE 802.11. WLAN connects laptops, smartphones, personal digital assistants, desktop computers, workstations and printers. This network is easy to install and use at the home or any other place. Wireless Local Area Network (WLAN). WLAN include an access point (AP) which is used to connect to the internet. Wireless LANs consist of components similar to traditional Ethernet-wired LANs. In fact, wireless LAN protocols are similar to Ethernet and comply with the same form factors. The big difference, however, is that wireless LANs don't require wires. User Devices. Users of wireless LANs operate a multitude of devices, such as PCs, laptops, and PDAs. The use of wireless LANs to network stationary PCs is beneficial because of limited needs for wiring. About Wireless LAN Network. What is WLAN? This is another term for the wireless local area network. It ensures that people operating from a workstation or in their home can connect on a variety of different devices by using the internet. The wireless local area network is also called the WLAN as should not be confused by Wi-Fi. Wi-Fi is just a hotspot that enables one or more devices to access the internet, but the devices are not connected to each other as in the case of a local area network.

SOHO Wireless LAN. Your router at home probably has the same capabilities as the one below: It is connected to your ISP through cable or DSL, or perhaps fiber. In small networks like this, the AP does everything by itself. We call this an autonomous access point. It uses 802.11 protocols to talk with the wireless clients and uses Ethernet on the LAN side. Enterprise Wireless LAN. When we look at large Enterprise networks, a single access point is not enough. Imagine a network with hundreds or thousands of users. Wireless, LAN (WLAN). A Wireless Local Area Network (WLAN) implements a flexible data communication system frequently augmenting rather than replacing a wired LAN within a building or campus. WLANs use radio frequency to transmit and receive data over the air, minimizing the need for wired connections. Wireless LANs consist of components similar to traditional Ethernet-wired LANs. In fact, wireless LAN protocols are similar to Ethernet and comply with the same form factors. The big difference, however, is that wireless LANs don't require wires. User Devices. Users of wireless LANs operate a multitude of devices, such as PCs, laptops, and PDAs. The use of wireless LANs to network stationary PCs is beneficial because of limited needs for wiring.